**Application No.: 10/624,901**

## AMENDMENT TO THE ABSTRACT

Please amend the Abstract as follows:

The information processing apparatus [[200]] includes: a process unit [[220]] having one or more registers that retain data used for calculation; a compression unit [[240]] that compresses and saves the content in the register to a stack memory [[231]]; and a decompression unit [[240]] that decompresses and restores the data saved in the stack memory [[231]], to the corresponding registers. If a first decoding unit included in the process unit [[220]] has decoded a call instruction which is assigned a compression control bit, the compression unit [[240]], in executing the call instruction, performs compression before saving the content of the registers to the stack memory [[231]]. If a second decoding unit included in the process unit [[220]] has decoded a return instruction which is assigned a decompression control bit, the decompression unit [[240]], in executing the return instruction, performs decompression before restoring the content saved in the stack memory [[231]] to the registers.

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